SANYO: DP50749-02 & DP50719-00

with PANASONIC 50" PLASMA PANEL (MD50H12NBC) SYMPTOM: TV's GREEN POWER LED WILL NOT REMAIN ON

p#1 2009-9B

12/28/10

note: Unplugging any power cable from the SMPS to isolate the defective PCB will not work on this Panasonic panel. Unplugging any of the power cables will cause the SMPS to shut down.

a) Unplug LVDS Cable (40 pin connector) from Main to Digital "D" Bd. (D5 connector) behind Main:

This will eliminate the Main Bd., and see if the SMPS will power ON automatically, and remain ON. Plug the AC Cord to power (do not push the Pwr Key on the TV) and see if the SMPS will power ON. If the SMPS powers ON and remains ON, then the Main Bd. should be tried. If the SMPS continues to shutdown then resistance checks (#1-#12) below should be done.

note: This panel has a self test mode, and unplugging the LVDS starts the self test. No raster is displayed, because a special jig is needed to activate the raster & video.

b) If the Base has ever been removed from the TV, the metal leg could have cut the Flat Ribbon and PCB underneath the leg. <u>Please see page #4.</u>

RESISTANCE CHECKS TO POSSIBLY ISOLATE DEFECTIVE PCB ←

 Is pin #1 or #2 (60V) of (P35 connector) shorted to chassis Gnd? yes, shorted = PDP Panel N/G

not shorted = go to step #2

2) Is Pin #5 or #6 (5V) of (P25 connector) shorted to chassis Gnd? yes, shorted = go to step #3 not shorted = go to step #4

Disconnect (p25 connector)

Is Pin #5 or #6 (5V) of (P25 connector) shorted to chassis Gnd? yes, shorted = SMPS N/G

not shorted = go to step #4

4) Disconnect (SC20 connector)

Is pin #30 (5V) of SC20 connector shorted to chassis Gnd?

yes, shorted = SC Bd N/G not shorted = go to step #5

5) Disconnect (SS23 connector)

Is pin #1 (5V) of SS23 connector shorted to chassis Gnd?

yes, shorted = SS Bd N/G not shorted = go to step #6

Reconnect P25, SC20, & SS23 Connectors

6) Disconnect (SC2 connector)

Is TPVSUS (SC2, pin #1, 193V) on SC Bd. Shorted to chassis Gnd? yes, shorted = SC Bd. N/G not shorted = go to step #7

7) Reconnect SC2 and disconnect (SS11 connector)

Is TPVSUS (SS11, pin #1, 193V) on SS Bd. Shorted to chassis Gnd?

yes, shorted = SS Bd. N/G

not shorted = Power ON TV, and check TPVSUS on SC Bd. for 193V before shutdown

If no output, = SMPS N/G

If 193V OK is before shutdown, SC Bd. may be defective (can not be sure)

Reconnect SS11 Connector

8) Is TPSC1 (143V) shorted to base pattern of SU/SD Bd?

Base Pattern Test Points are on attached page (please do not use chassis Gnd)

yes, shorted = go to step #9

not shorted = go to step #11, not necessary to check #9 - #10

Disconnect SU41 connector

Is TPSC1 shorted to base pattern of SU/SD Bd?

not shorted = SU Bd. may be defective

yes, shorted = go to step #10

10) Reconnect SU41 and disconnect SD42 connector

Is TPSC1 shorted to base pattern of SU/SD Bd?

not shorted = SD Bd. may be defective

yes, shorted = SC Bd. may be defective

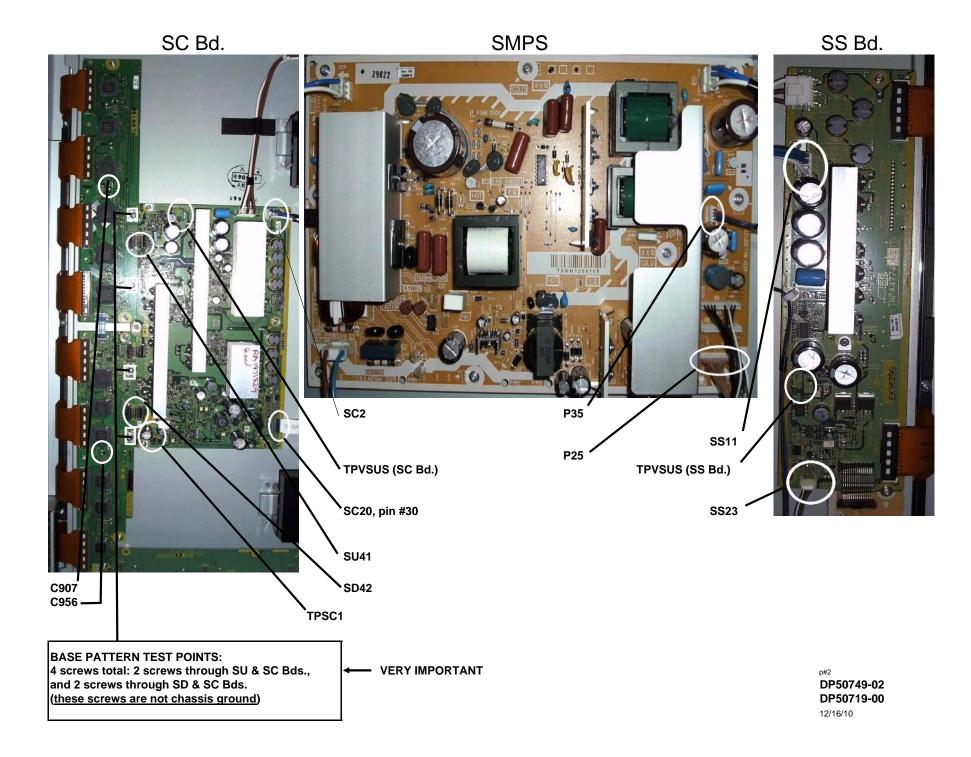
- 11) Measure resistance across C956 (143V across cap.) on SD Bd.. If resistance is only a few ohms, the SD BD. is defective.
- 12) Measure resistance across C907 (143V across cap.) on SU Bd.. If resistance is only a few ohms, the SU BD. is defective.

If you can not find anything wrong and you suspect the panel is shorted, you can unplug the eight flat ribbons from the panel to the buffer bds. (SU & SD) and see if the SMPS will remain ON. You can not unplug the flat ribbons to the Sustain Drive (SS) Bd. (if you unplug the flat ribbon/s to the SS Bd. the panel will shut down). If all PCBs and other connections are OK, the SMPS will power ON and have all voltages with these ribbons unplugged. If the SMPS should remain ON with the ribbons unplugged, you should re-connect them and then verify that the SMPS still shuts down when they are connected. note: The SMPS will remain ON, if one or more of the flat ribbons are unplugged from the panel to the buffer bds. (SU & SD), if the PCBs and other connections are OK.

Location of connectors is on page #2

Please re-install all PCB mounting screws whenever a board is changed, and before re-testing the TV. The ground screws are needed to prevent damage to the PCB.

After working on TV, if it has several horizontal lines or bars, please try reseating the flat ribbons going to the SU & SD Bds.

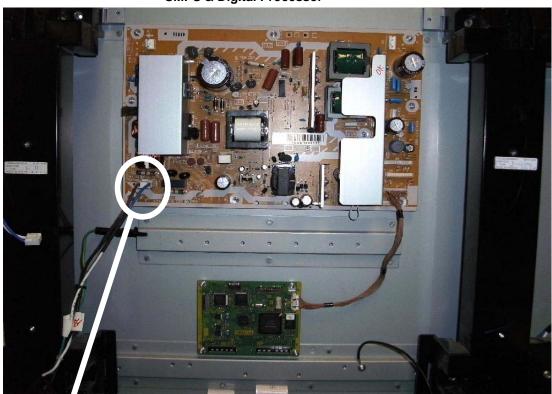


IF YOU BELIEVE THE SMPS IS DEFECTIVE

The SMPS can be checked, but <u>all cables & flat ribbons from the SMPS & Digital Processor PCB must be unplugged</u>. The only exception is the cable from D25 (D Bd.) to P25 (SMPS) must be connected. With everything disconnected except this one cable, and when power is applied to the SMPS, the SMPS should turn ON.

If the SMPS is working OK, please reconnect all connectors to the SMPS & Digital Processor. If one of the other PCBs is defective, it is possible to damage the SMPS, w/o the flat ribbons connected to the Digital Processor.



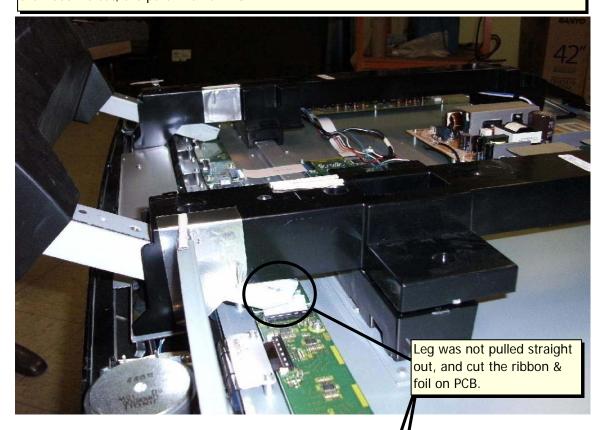


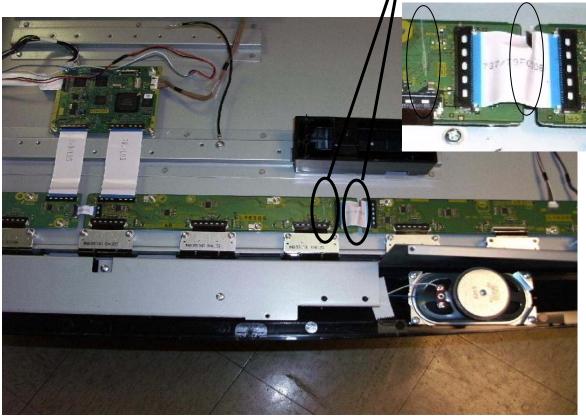
Apply power to the SMPS.

No cables attached to SMPS or Digital Bd., except cable from D25 to P25.

Thes	e voltage	es shoul	d be present	:		P25	p1	15.5
Conn	ector:						p2	15.5
P2	p1	193.6	P7	p1			р3	
	p2			p2			p4	
				р3			p5	5.0
P6	p1			p4			р6	5.0
	p2	15.5		p5	5.0		p7	
	р3	15.5		р6			p8	
	p4			p7			p9	5.0
	p5			p8			p10	
	p6			p9			p11	3.3
	p7			p10			p12	
	p8	15.5		p11			p13	
	p9	15.5						
	p10		P11	p1	193.6	P35	p1	60.3
	p11			p2			p2	60.3
	p12			p3			p3	
	1.			p4	15.5		p4	

If the Base is removed from the TV, the metal leg can damage the flat ribbon between the C2 & C3 PCBs, if it is not pulled straight out from the TV. It can also cut the foil on the C2 PCB. If the ribbon is cut, the part # is TSXL737.





Notice

Model:



Effective from : Chassis No. P50749-02

CORRECTION	PRODUCTION CHANGE		IIII	
SERVICE FLASH	ADD INFORMATION		FILE NO.	
Please add this notice	to the Service Manual listed be	low.	REVISION 0	
Category: COLOR TE	ELEVISION	Date: _	OCTOBER / 29 / 2009	

Destination: U.S.A. / CANADA REF : **No. SM780163-02**

NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual. If the Service Manual Chassis No. does not match the unit's, additional Service Literature is required. This chassis is similar to Chassis No. P50749-00. Only the difference Service Information is given in this manual. For detailed Service Information, refer to the Original Service Manual and Notices for Chassis No. P50749-00 used in Model DP50749 (SM780163).

SERVICING SHOULD BE PERFORMED BY ONLY TRAINED AND QUALIFIED SERVICE PERSONNEL.

1. IN THE SERVICE ADJUSTMENTS

DP50749

PAGE 4 ON-SCREEN SERVICE MENU

Item No. 088 OP2 Data should be changed from 3Ch to 3Eh in the table and in Note 2.

2. IN THE CHASSIS ELECTRICAL PARTS LIST MISCELLANEOUS

The reason for change.

A: Misprint B: Quality Reliability C: Standardization

E: Add as a possible sub D: Design F: Schematic location change

G: Purchasing Request

	Page & Section	Schematic Location		Part No.	Description	Q'ty	Interchange- ability	Reason
		C1646	Old	N/A	NOT USED	0	NO	D
60		01040	New	CK1H333KLZBNG	CERAMIC 0.033U K 50V	1	NO	ט
on 2009		C1649	N/A	NOT USED	0	NO	D.	
rporati	Page 11, Chassis		New	CK1H682KLZBNG	CERAMIC 6800P K 50V	1	NO	D
ing Co	Electrical Parts List	01052	Old	N/A	NOT USED	0	NO	
Page 11, Chassis Electrical Parts List	C1652	New	CEXLB1C102VDN	ELECT 1000U M 16V	1	NO	D	
		C1654	Old	N/A	NOT USED	0	NO	D
Sany			New	CK1E103KMNBNG	CERAMIC 0.01U K 25V	1	NO	

Page & Section	Schematic Location		Part No.	Description	Q'ty	Interchange- ability	Reason
	C1655	Old	N/A	NOT USED	0	NO	. D
	01033	New	CK1E103KMNBNG	CERAMIC 0.01U K 25V	1	NO	
	C1656	Old	N/A	NOT USED	0	NO	D
	C1030	New	CC1H391JLZCNG	CERAMIC 390P J 50V	1	NO	
	C1658	Old	N/A	NOT USED	0	NO	D
	C1030	New	CK1H104KLZBNG	CERAMIC 0.1U K 50V	1	NO	
	C1659	Old	N/A	NOT USED	0	NO	
	C 1059	New	CK1E105KGMBNG	CERAMIC 1U K 25V	1	NO	- D
	C1662	Old	N/A	NOT USED	0	NO	
	C1002	New	CEXLB1C102VDN	ELECT 1000U M 16V	1	NO	. D
Page 11 Chassis	C1665	Old	N/A	NOT USED	0	NO	
Electrical Parts List	C1665	New	CK1E105KGMBNG	CERAMIC 1U K 25V	1	NO	. D
	C1666	Old	N/A	NOT USED	0	NO	_
		New	CEXLB0J102VDN	ELECT 1000U M 6.3V	1	NO	. D
	C1667	Old	N/A	NOT USED	0	NO	_
		New	CK1E105KGMBNG	CERAMIC 1U K 25V	1	NO	- D
	C1668	Old	N/A	NOT USED	0	NO	_
		New	CC1H221JLZCNG	CERAMIC 220P J 50V	1	NO	- D
	C1669	Old	N/A	NOT USED	0	NO	
		New	CK1H104ZLZFNG	CERAMIC 0.1U Z 50V	1	NO	D
		Old	N/A	NOT USED	0	NO	
	C1679	New	CC1H221JLZCNG	CERAMIC 220P J 50V	1	NO	- D
		Old	N/A	NOT USED	0	NO	
Page 14 Chassis	D1604	New	DDSS3P3-E3G	CERAMIC 390P J 50V	1	NO	- D
Electrical Parts List		Old	N/A	NOT USED	0	NO	
	D1605	New	DDSS3P3-E3G	CERAMIC 390P J 50V	1	NO	D
		Old	N/A	NOT USED	0	NO	
Page 14 Chassis	IC1611	New	QBD9845FVP	CERAMIC 390P J 50V	1	NO	D
Electrical Parts List		Old	1LB4L26B0740G	INDUCTOR, 220 OHM	1	NO	
	L1602	 New	N/A	NOT USED	0	NO	- D

Page & Section	Schematic Location		Part No.	Description	Q'ty	Interchange- ability	Reason
	L1604	Old	N/A	NOT USED	0	NO	D
	11004	New	1LB4L26B0740G	INDUCTOR, 220 OHM	1	NO	D
	L1608	Old	N/A	NOT USED	0	NO	D
	1000	New	1LB4L26B0740G	INDUCTOR, 220 OHM	1	NO	Ь
	L1610	Old	1LB4L26B0740G	INDUCTOR, 220 OHM	1	NO	D
	L1010	New	N/A	NOT USED	0	NO	U
	L1633	Old	1LB4L26B0740G	INDUCTOR, 220 OHM	1	NO	Б
	L1033	New	N/A	NOT USED	0	NO	D
	11624	Old	1LB4L26B0740G	INDUCTOR, 220 OHM	1	NO	
	L1634	New	N/A	NOT USED	0	NO	D
	14005	Old	1LB4L26B0740G	INDUCTOR, 220 OHM	1	NO	
Page 14, Chassis	L1635	New	N/A	NOT USED	0	NO	D
Electrical Parts List	L1636	Old	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W	1	NO	_
		New	N/A	NOT USED	0	NO	D
	L1637	Old	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W	1	NO	_
		New	N/A	NOT USED	0	NO	D
	L1638	Old	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W	1	NO	_
		New	N/A	NOT USED	0	NO	D
	L1644	Old	N/A	NOT USED	0	NO	_
		New	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W	1	NO	D
		Old	N/A	NOT USED	0	NO	
	L1645	New	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W	1	NO	D
		Old	N/A	NOT USED	0	NO	
	L1646	New	1AV4L26B5930N	INDUCTOR, 10U	1	NO	D
	1455-	Old	N/A	NOT USED	0	NO	
	L1686	 New	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W	1	NO	D
Page 15, Chassis		Old	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W	1	NO	
Electrical Parts List	L5730	New	N/A	NOT USED	0	NO NO	D
		Old	N/A	NOT USED	0	NO	
	L5731	New	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W	1	NO	D

Page & Section	Schematic Location		Part No.	Description	Q'ty	Interchange- ability	Reason
	1 6600	Old	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W	1	NO	D
	L6602	New	N/A	NOT USED	0	NO	ט
Page 15, Chassis Electrical Parts List	L6603	Old	N/A	NOT USED	0	NO	6
	10003	New	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W	1	NO	D
	Q1603	Old	T2SC3928A1R-P	TR 2SC3928A1S	1	NO	5
	Q1003	New	N/A	NOT USED	0	NO	D
	Q1641	Old	N/A	NOT USED	0	NO	D
	Q1041	New	TAO4449P	TR AO4449	1	NO	D
	01000	Old	T2SC3928A1R-P	TR AO4449	1	NO	
	Q1803	New	N/A	NOT USED	0	NO	D
	D047	Old	RGF4700JTCANL	MT-GLAZE 470 JA 1/10W	1	NO	_
Page 16 Chassis	R017	New	N/A	NOT USED	0	NO	D
Electrical Parts List	R018	Old	N/A	NOT USED	0	NO	
		New	RGF4700JTCANL	MT-GLAZE 470 JA 1/10W	1	NO	D
	R1615	Old	N/A	NOT USED	0	NO	_
		New	RGF7501JTCANL	MT-GLAZE 7.5K JA 1/10W	1	NO	D
	R1616	Old	N/A	NOT USED	0	NO	_
		New	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W	1	NO	D
Page 17 Chassis	R1617	Old	N/A	NOT USED	0	NO	
Electrical Parts List		New	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W	1	NO	D
		Old	N/A	NOT USED	0	NO	
	R1618	 New	RGF6801FTCANL	MT-GLAZE 6.8K FA 1/10W	1	NO	D
		Old	RWXLB71R2KXAL	WIRE WOUND 1.2 KA 7W	1	NO	
	R1640	New	N/A	NOT USED	0	NO	D
		Old	N/A	NOT USED	0	NO	
	R1668	 New	RGF2202FTCANL	MT-GLAZE 22K FA 1/10W	1	NO	D
		Old	N/A	NOT USED	0	NO	
Page 18 Chassis	R1669	 New	RGF1002FTCANL	MT-GLAZE 10K FA 1/10W	1	NO	D
Electrical Parts List		Old	N/A	NOT USED	0	NO	
	R1675	 New	RGF1002FTCANL	MT-GLAZE 10K FA 1/10W	1	NO	D

Page & Section	Schematic Location		Part No.	Description	Q'ty	Interchange- ability	Reason
	R1676	Old	N/A	NOT USED	0	NO	D
	N10/0	New	RGF1002FTCANL	MT-GLAZE 10K FA 1/10W	1	NO	U
	R1680	Old	N/A	NOT USED	0	NO	1
	N 1000	New	RN1R005JTFANL	MT-FILM 0.005 JA 1W	1	NO	D
	R1681	Old	N/A	NOT USED	0	NO	1
	N 1001	New	RGF18R0JTCANL	MT-GLAZE 18 JA 1/10W	1	NO	D
	R1682	Old	N/A	NOT USED	0	NO	1
	N 1002	New	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W	1	NO	D
Page 18 Chassis	D1010	Old	N/A	NOT USED	0	NO	
Electrical Parts List	R1812	New	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W	1	NO	D
	D4040	Old	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W	1	NO	_
	R1813	New	N/A	NOT USED	0	NO	D
	R1815	Old	N/A	NOT USED	0	NO	
		New	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W	1	NO	D
	R1816	Old	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W	1	NO	
		New	N/A	NOT USED	0	NO	D
	R1821	Old	1LB4L26B0700G	INDUCTOR, 120 OHM	1	NO	
		New	N/A	NOT USED	0	NO	D
	R6300	Old	N/A	NOT USED	0	NO	
		 New	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W	1	NO	D
		Old	N/A	NOT USED	0	NO	
Page 20 Chassis	R6319	 New	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W	1	NO	D
Electrical Parts List		Old	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W	1	NO	
	R6347	 New	N/A	NOT USED	0	NO	D
		Old	N/A	NOT USED	0	NO	
	R6349	New	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W	1	NO	D
		Old	N/A	NOT USED	0	NO	
Page 16 Chassis	R822	New	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W	1	NO	D
Electrical Parts List		Old	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W	1	NO	
	R840	 New	N/A	NOT USED	0	NO	D

Schematic Location		Part No.	Description	Q'ty	Interchange- ability	Reason
Page 16, Chassis R843 Electrical Parts List	Old	N/A	NOT USED	0	NO	D
	New	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W	1	NO	
WK5LV -PN	Old	1AA4W30B56400	CORD 50INCH,40P-31P(LVDS)	1	NO	D
	New	1AA4W30B61901	CORD 50INCH,40P-31P(LVDS)	1	NO	
▲ EL901	Old	1AV4T44B02600	PDP MODULE	1	NO	. D
	New	1AV4T44B02800	PDP MODULE	1	NO	
	R843 WK5LV -PN	R843 Old New MK5LV Old New A COId Old Old Old Old Old Old Old Old Old Ol	New RGF4701JTCANL	New RGF4701JTCANL MT-GLAZE 4.7K JA 1/10W	Description Q*ty	Location Part No. Description Q ty ability R843 Old N/A NOT USED 0 NO New RGF4701JTCANL MT-GLAZE 4.7K JA 1/10W 1 NO MK5LV -PN Old 1AA4W30B56400 CORD 50INCH,40P-31P(LVDS) 1 NO New 1AA4W30B61901 CORD 50INCH,40P-31P(LVDS) 1 NO MEL901

© Sanyo Manufacturing Corporation 2009

For parts or service contact:

Sanyo Manufacturing Corporation P.O. Box 2000 3333 Sanyo Road Forrest City, Arkansas 72335-2000

October 2009 SMC

Published in Mexico